

Light efficiency:

104 Lumen/Watt

Light quality:

CRI: 82.5

Color temperature:

3008 K

Output: 1712 lm

Peak: 2404 cd

Power: 16.5 W

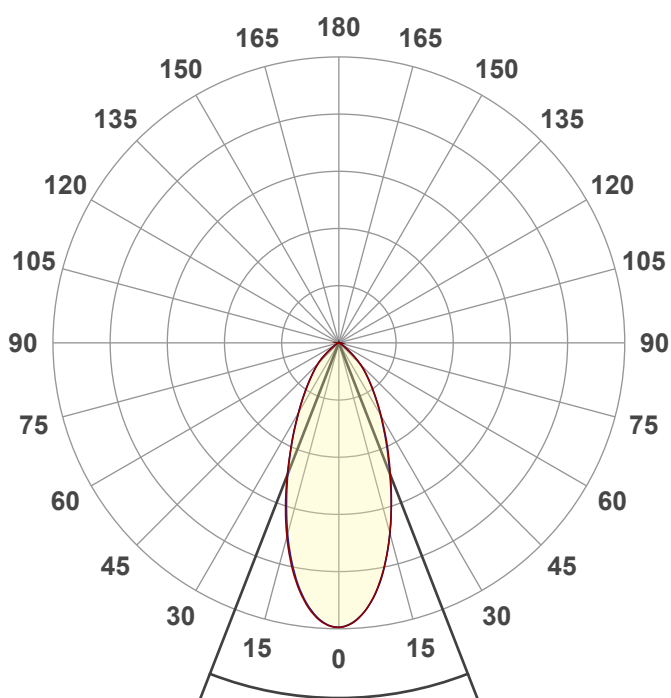
PF: 0.97



BETA-3R-SW-20LM-30K-80-40D-WH-WH

Date and time:

12/28/2022 12:07:27 PM



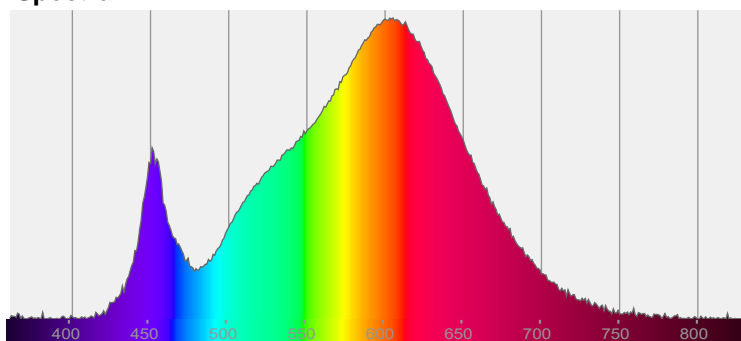
Beam angle

42.6°

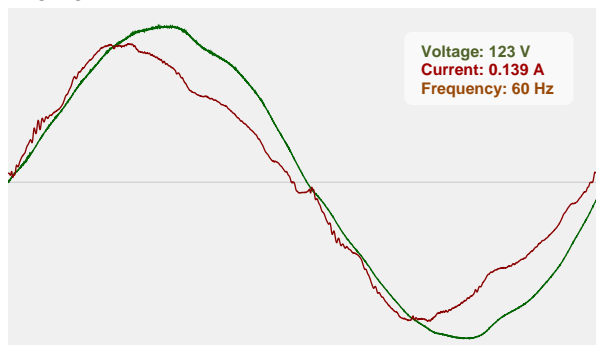


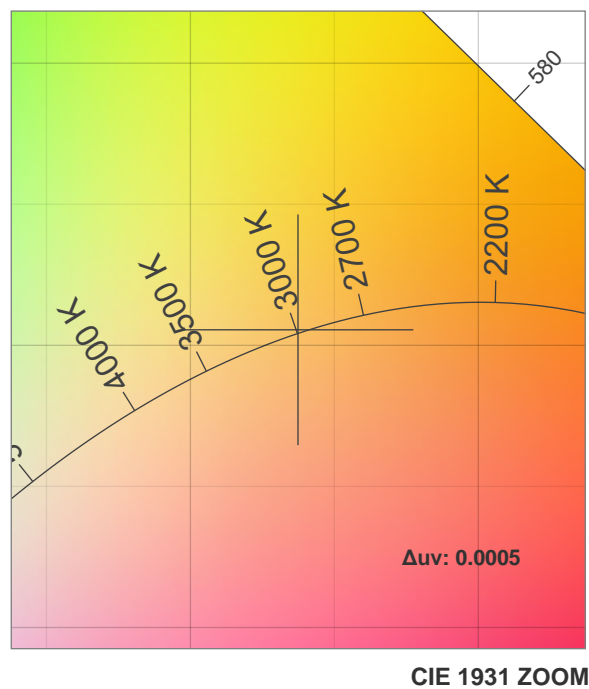
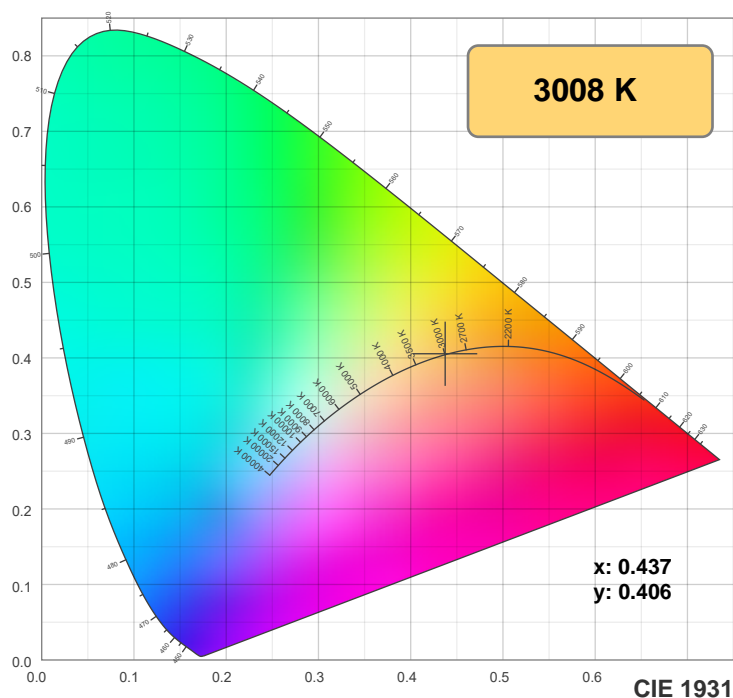
CIE 1931
x: 0.437
y: 0.406

Spectra

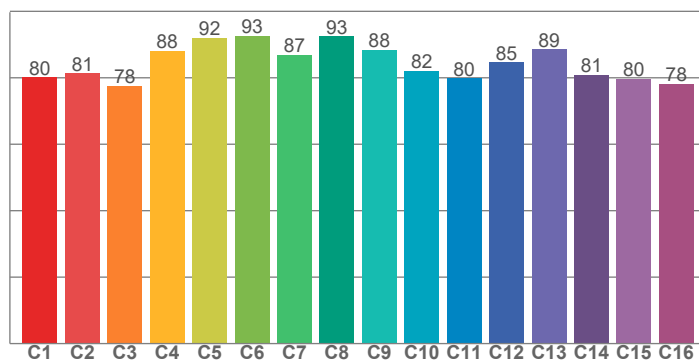


Power

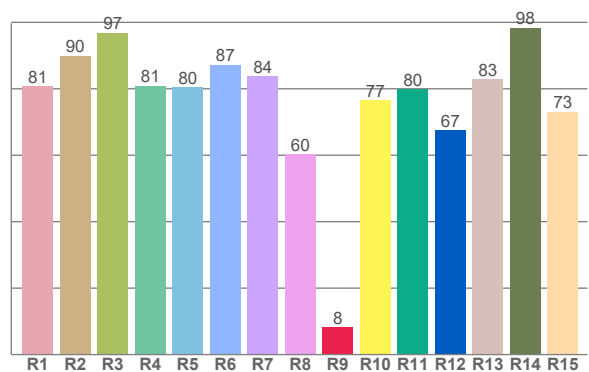




TM30: 84.5



CRI: 82.5 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.8	90.0	96.8	80.9	80.4	87.3	83.8	60.2	8.3	76.5	79.8	67.5	82.9	98.4	73.1

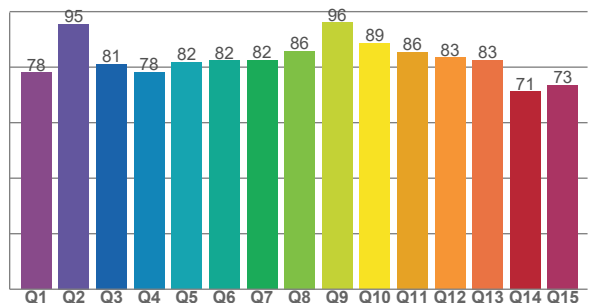
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.1	81.3	77.6	88.2	91.9	92.7	86.9	92.5	88.3	82.1	79.8	84.6	88.5	80.9	79.7	78.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.0	95.5	81.1	78.3	81.7	82.3	82.5	85.8	96.0	88.6	85.5	83.5	82.5	71.3	73.5

CQS: 81.7



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3008 K	82.5	8.3	84.5	96.2	81.7	0.437	0.406	0.250	0.348	0.0005

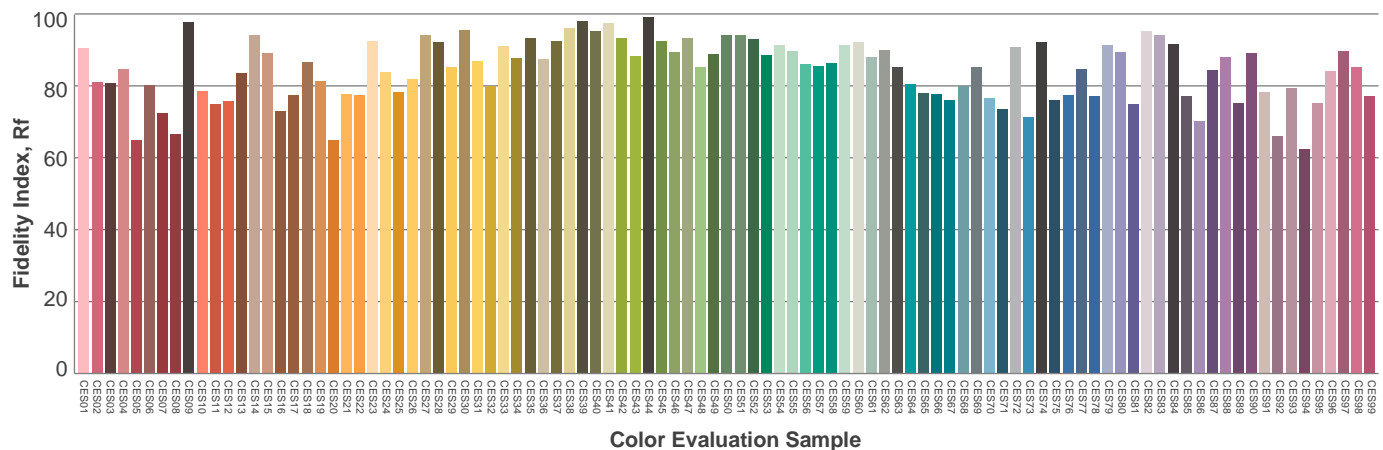
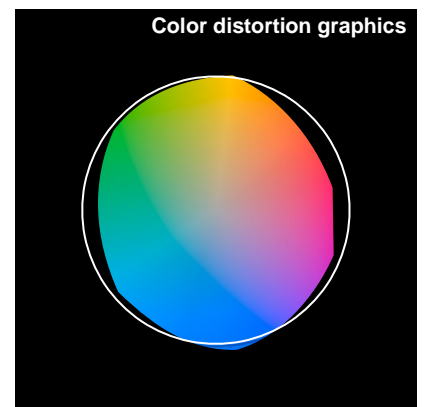
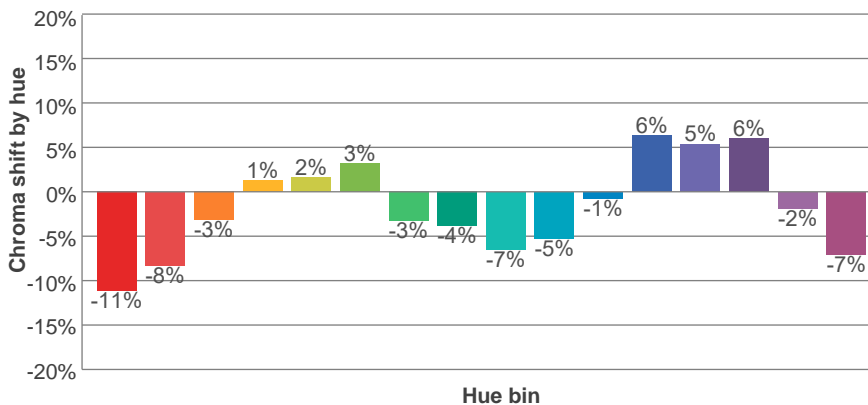
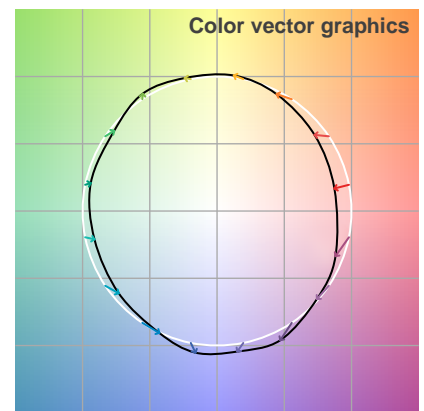
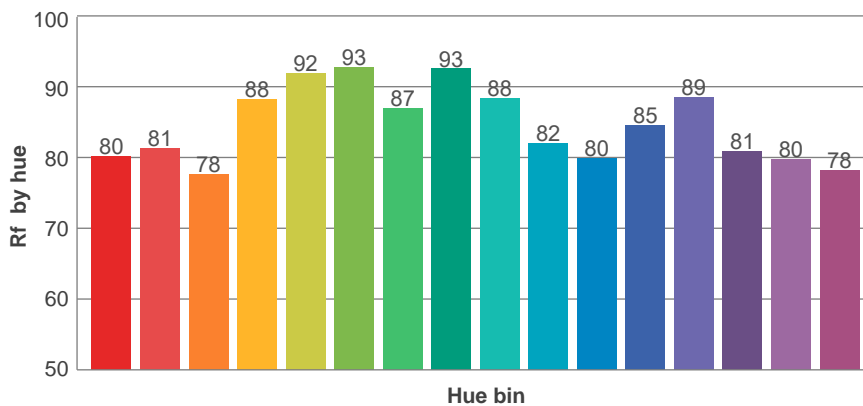
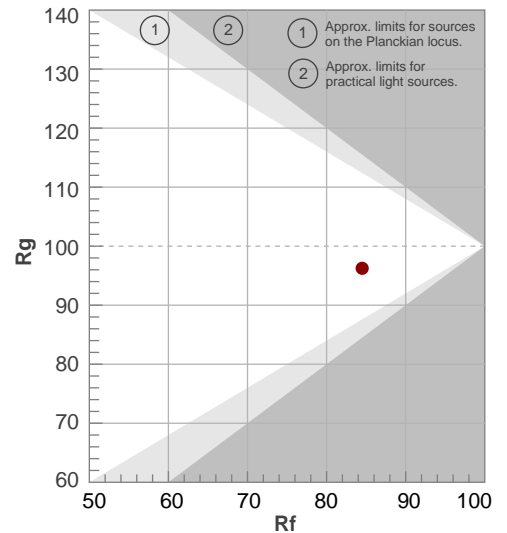
Rf 84.5

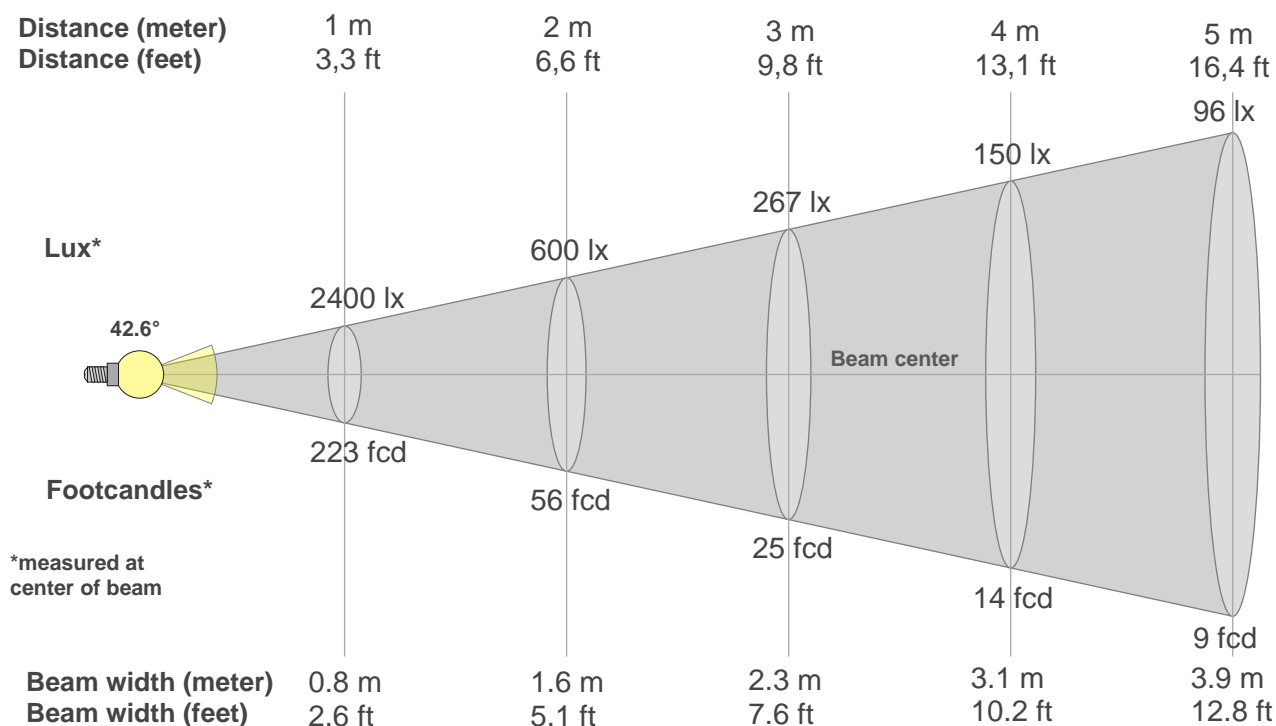
Fidelity index Rf

Rg 96.2

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-1%
2	81	-8%	7%
3	78	-3%	11%
4	88	1%	7%
5	92	2%	4%
6	93	3%	-2%
7	87	-3%	-7%
8	93	-4%	-2%
9	88	-7%	3%
10	82	-5%	10%
11	80	-1%	15%
12	85	6%	5%
13	89	5%	-6%
14	81	6%	-14%
15	80	-2%	-13%
16	78	-7%	-16%





Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
2400lx	600lx	267lx	150lx	96lx	67lx	49lx	37lx	30lx	24lx	20lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	7lx	6lx
222.9fcd	55.7fcd	24.8fcd	13.9fcd	8.9fcd	6.2fcd	4.5fcd	3.5fcd	2.8fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2400	2381	2333	2258	2153	2028	1890	1742	1588	1437	1292	1155	1030	917	809	717	633	558	491	432
100%	99%	97%	94%	90%	85%	79%	73%	66%	60%	54%	48%	43%	38%	34%	30%	26%	23%	20%	18%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2400	2378	2329	2255	2158	2035	1893	1743	1589	1432	1280	1140	1014	901	795	706	625	551	484	425
100%	99%	97%	94%	90%	85%	79%	73%	66%	60%	53%	47%	42%	38%	33%	29%	26%	23%	20%	18%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2400	2389	2350	2274	2175	2057	1923	1775	1618	1458	1301	1150	1008	888	777	681	598	521	456	400
100%	100%	98%	95%	91%	86%	80%	74%	67%	61%	54%	48%	42%	37%	32%	28%	25%	22%	19%	17%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2400	2388	2339	2263	2164	2043	1902	1750	1592	1434	1282	1137	1007	890	782	684	599	527	462	404
100%	100%	97%	94%	90%	85%	79%	73%	66%	60%	53%	47%	42%	37%	33%	28%	25%	22%	19%	17%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.6°	91.2°	109.6°	98.5%	90.5%